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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: Wed Oct 17 17:36:15 EDT 2007

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Application No: 10590539

Version No: 1.0

Input Set:**Output Set:****Started:** 2007-10-02 14:27:41.118**Finished:** 2007-10-02 14:27:43.165**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 47 ms**Total Warnings:** 30**Total Errors:** 0**No. of SeqIDs Defined:** 62**Actual SeqID Count:** 62

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)
W 213	Artificial or Unknown found in <213> in SEQ ID (28)
W 213	Artificial or Unknown found in <213> in SEQ ID (31)
W 213	Artificial or Unknown found in <213> in SEQ ID (32)
W 213	Artificial or Unknown found in <213> in SEQ ID (33)
W 213	Artificial or Unknown found in <213> in SEQ ID (34)
W 213	Artificial or Unknown found in <213> in SEQ ID (35)
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W 213	Artificial or Unknown found in <213> in SEQ ID (37)
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W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)

Input Set:

Output Set:

Started: 2007-10-02 14:27:41.118
Finished: 2007-10-02 14:27:43.165
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 47 ms
Total Warnings: 30
Total Errors: 0
No. of SeqIDs Defined: 62
Actual SeqID Count: 62

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (42) This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (58)
W 402	Undefined organism found in <213> in SEQ ID (59)
W 402	Undefined organism found in <213> in SEQ ID (60)
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<110> East, Peter David
Brown, Susan Elizabeth

<120> Antifungal peptides

<130> 76786

<140> 10590539

<141> 2007-10-02

<150> AU 2004900938

<151> 2004-02-24

<150> PCT/AU05/00234

<151> 2005-02-23

<160> 62

<170> PatentIn version 3.3

<210> 1

<211> 64

<212> PRT

<213> Galleria mellonella

<400> 1

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				20				25					30		

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<212> PRT

<213> Galleria mellonella

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1				5					10					15	

Phe Ile Gly Ser Asn Glu Ala Ala Pro Lys Val Asn Val Asn Ala Ile
20 25 30

Lys Lys Gly Gly Lys Ala Ile Gly Lys Gly Phe Lys Val Ile Ser Ala
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Glu His Ile Lys Asn Arg Arg His
50 55 60

<210> 3
<211> 68
<212> PRT
<213> Galleria mellonella

<400> 3

Met Arg Leu Ser Ile Ile Leu Val Val Val Met Met Val Met Ala Met
1 5 10 15

Phe Val Ser Ser Gly Asp Ala Ala Pro Gly Lys Ile Pro Val Lys Ala
20 25 30

Ile Lys Lys Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn
35 40 45

Ile Ala Ser Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys Lys
50 55 60

Lys Lys Asn His
65

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<212> PRT
<213> Galleria mellonella

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Lys Val Asn Val Asn Ala Ile Lys Lys Gly Gly Lys Ala Ile Gly Lys
1 5 10 15

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20 25 30

His Ile Lys Asn Arg Arg His
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<211> 33
<212> PRT
<213> Galleria mellonella

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Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn Ile Ala Ser
1 5 10 15

Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys Lys Lys Lys Asn
20 25 30

His

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<211> 342
<212> DNA
<213> Galleria mellonella

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cctaaagtca atgttaatgc cattaagaag ggaggaaagg ccataggaaa aggatttaaa 180
gtaatcagtg cggcgagtac agcgcgatgac gtctatgaac acattaaaaa cagaaggcac 240
taataaaacc aaaaataatt atttatttta taaggtaatt ttaagacata taatgtatgt 300
tgcaaattat taagtgaaat aaaatataaa atattttttg tt 342

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<213> Galleria mellonella

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ttttacagga atattcttca tgattatggc gatcattgcc ctctttatag ggtcaaatga 120
agcggcgcct aaagtcaatg ttaatgccat taagaaggga ggaaaggcca taggaaaagg 180
atttaaagta atcagtgcgg cgagtacagc gcatgacgtc tatgaacaca ttaaaaacag 240
aaggcactaa tagaaccaaa aataatcatt tattttataa ggtaatttta agacatataa 300
tgaatgttgc aaattattaa gtggaataaa atataaaata ttttttgtt 349

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 tgagattgtc cataatattg gtcgttgtga tgatggatgat ggctatgttt gtgagcagtg 120
 gagatgcggc gcctggaaaa attcctgtga aagcgattaa aaaaggaggg caaattattg 180
 gtaaagctct gcgtggaatc aatatagcga gtactgcaca tgacataatt agccagttca 240
 aaccgaaaaa gaagaaaaac cattgagtat ttaataaaaa atcgttcaat aatatattta 300
 ataataataa taaattttac ttatattact ataataataa taatattttt aattgtgcca 360
 ttttagtttt ataaattata ttaagtatta attttataat taataaaaaa gcttaaatat 420

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 <211> 192
 <212> DNA
 <213> Galleria mellonella

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 atgaagttaa caggaatatt cttcataatt atggcgatca ttgccctctt tatagggtca 60
 aatgaagcgg cgcctaaagt caatgttaat gccattaaga agggaggaaa ggccatagga 120
 aaaggattta aagtaatcag tgcggcgagt acagcgcatg acgtctatga acacattaaa 180
 aacagaaggc ac 192

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 <212> DNA
 <213> Galleria mellonella

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 aatgaagcgg cgcctaaagt caatgttaat gccattaaga agggaggaaa ggccatagga 120
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 aacagaaggc ac 192

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ggagatgcgg cgcttgaaa aattcctgtg aaagcgatta aaaaaggagg gcaaattatt 120

ggtaaagctc tgcgtggaat caatatagcg agtactgcac atgacataat tagccagttc 180

aaaccgaaaa agaagaaaaa ccat 204

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<211> 117
<212> DNA
<213> Galleria mellonella

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atcagtgcgg cgagtacagc gcatgacgtc tatgaacaca ttaaaaacag aaggcac 117

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<211> 99
<212> DNA
<213> Galleria mellonella

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ataattagcc agttcaaacc gaaaaagaag aaaaaccat 99

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<211> 67
<212> PRT
<213> Spodoptera litura

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Leu Val Pro Ser Glu Ala Ala Pro Gly Lys Ile Pro Val Lys Ala Ile
20 25 30

Lys Lys Ala Gly Ala Ala Ile Gly Lys Gly Leu Arg Ala Ile Asn Ile
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Ser Phe Phe Lys Pro Lys His Lys
50 55 60

Lys Lys His
65

<210> 15
<211> 67
<212> PRT
<213> Manduca sexta

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Met Lys Leu Thr Ser Leu Phe Ile Phe Val Ile Val Ala Leu Ser Leu
1 5 10 15

Leu Phe Ser Ser Thr Asp Ala Ala Pro Gly Lys Ile Pro Val Lys Ala
20 25 30

Ile Lys Gln Ala Gly Lys Val Ile Gly Lys Gly Leu Arg Ala Ile Asn
35 40 45

Ile Ala Gly Thr Thr His Asp Val Val Ser Phe Phe Arg Pro Lys Lys
50 55 60

Lys Lys His
65

<210> 16
<211> 66
<212> PRT
<213> Bombyx mori

<400> 16

Met Asn Ile Leu Lys Phe Phe Phe Val Phe Ile Val Ala Met Ser Leu
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Val Ser Cys Ser Thr Ala Ala Pro Ala Lys Ile Pro Ile Lys Ala Ile
20 25 30

Lys Thr Val Gly Lys Ala Val Gly Lys Gly Leu Arg Ala Ile Asn Ile
35 40 45

Ala Ser Thr Ala Asn Asp Val Phe Asn Phe Leu Lys Pro Lys Lys Arg
50 55 60

Lys His
65

<210> 17

<211> 41
<212> PRT
<213> *Heliothis virescens*

<400> 17

Gly Lys Ile Pro Ile Gly Ala Ile Lys Lys Ala Gly Lys Ala Ile Gly
1 5 10 15

Lys Gly Leu Arg Ala Val Asn Ile Ala Ser Thr Ala His Asp Val Tyr
20 25 30

Thr Phe Phe Lys Pro Lys Lys Arg His
35 40

<210> 18
<211> 66
<212> PRT
<213> *Bombyx mori*

<400> 18

Met Tyr Phe Leu Lys Tyr Phe Ile Val Val Leu Val Ala Leu Ser Leu
1 5 10 15

Met Ile Cys Ser Gly Gln Ala Asp Pro Lys Ile Pro Val Lys Ser Leu
20 25 30

Lys Lys Gly Gly Lys Val Ile Ala Lys Gly Phe Lys Val Leu Thr Ala
35 40 45

Ala Gly Thr Ala His Glu Val Tyr Ser His Val Arg Asn Arg Gly Asn
50 55 60

Gln Gly
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<210> 19
<211> 32
<212> PRT
<213> *Galleria mellonella*

<400> 19

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Gly Phe Lys Val Ile Ser Ala Ala Ser Thr Ala His Asp Val Tyr Glu

<210> 20

<211> 28

<212> PRT

<213> Galleria mellonella

<400> 20

Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn Ile Ala Ser
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Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys
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<210> 21

<211> 23

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<220>

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<222> (12)..(12)

<223> N = inosine

<400> 21

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23

<210> 22

<211> 21

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23

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<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide primer

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gaggaaaggc cataggaaaa gg

22

<210> 26

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide primer

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actcgccgca ctgattac

18

<210> 27

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide primer

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ggggggcaga tcattggg

18

<210> 28

<211> 19

<212> DNA

<213> Artificial Sequence

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 <223> Oligonucleotide primer
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<210> 29
 <211> 337
 <212> DNA
 <213> Galleria mellonella

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 agtcaatgtt aatgccatta agaagggagg aaaggccata ggaaaaggat ttaaagtaat 180
 cagtgcggcg agtacagcgc atgacgtcta tgaacacatt aaaaacagaa ggcactaata 240
 aaaccaaaaa taattattta ttttataagg taattttaag acatataatg tatgttgcaa 300
 attattaagt gaaataaaat ataaaatatt ttttggtt 337

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 <212> PRT
 <213> Galleria mellonella

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Gly Leu Gly Val Ile Gly Ala Ala Gly Thr Ala His Glu Val Tyr Ser
 20 25 30

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<222> (18)..(18)
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<400> 31
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<210> 33
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<400> 33
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<400> 39

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<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide Sequence

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gagtatttta ctaataagta tgtgg 25

<210> 41

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide Primer

<400> 41

ctcgagaaca atgaagttta caggaatatt cttca 35

<210> 42

<211> 39

<212> DNA

<213> Artificial Sequence

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<210> 43

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide Primer

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cgccagagga cccctaaac

19

<210> 44

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<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide Primer

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<210> 45

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide Primer

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<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Oligonucleotide Primer

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33

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<211> 63

<212> PRT

<213> Galleria mellonella

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20 25 30

Lys Lys Gly Gly Lys Ile Ile Lys Lys Gly Leu Gly Val Ile Gly Ala
35 40 45

Ala Gly Thr Ala His Glu Val Tyr Ser His Val Lys Asn Arg His
50 55 60

<210> 48

<211> 38

<212> PRT

<213> Galleria mellonella

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Lys Val Pro Ile Gly Ala Ile Lys Lys Gly Gly Lys Ile Ile Lys Lys
1 5 10 15

Gly Leu Gly Val Ile Gly Ala Ala Gly Thr Ala His Glu Val Tyr Ser
20 25